

# Who we are

- ▶ Bio Fuel Systems GmbH
- ▶ Industrial Recycling-Biogasplant
- ▶ BFS since 2017 (plant built 2005)
  - ▶ Processing of organic waste: 10,000 tonnes per year
  - ▶ Currently production of electricity and heat
  - ▶ 8,700 full-load operating hours per year of renewable energy:
    - ▶ continuous operation at 330 kW and additionally flexible operation up to 330 kW of electrical output (equivalent to 680 households)
    - ▶ 500 kW of thermal output (equivalent to 350 households)
    - ▶ Supply of public grids with green electricity and renewable heat
    - ▶ Balancing energy / ancillary services
  - ▶ Organic liquid fertilizer for 300 hectares of agricultural land

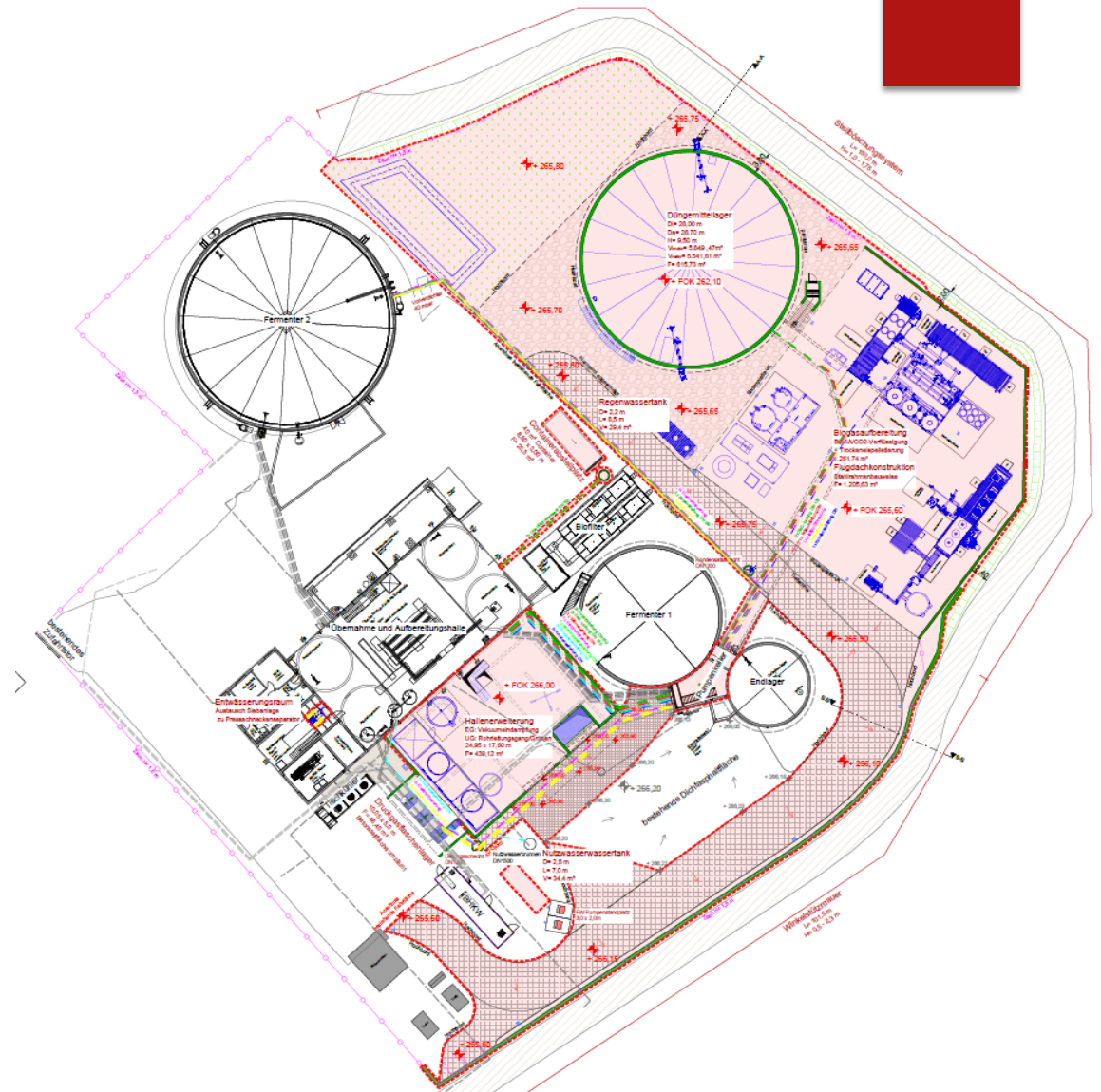


# Biogaskraftwerk Amstetten

- ▶ Current production of 1.7 million m<sup>3</sup> of biogas per year (equivalent to 10 GWh of energy)
- ▶ 3.5 GWh of electricity and 4 GWh of heat are generated annually about 2 GWh of heat are supplied to heat grid
- ▶ High-efficiency biogas plant
- ▶ Annual CO<sub>2</sub> savings of > 1,000 to



- ▶ Biomethane upgrading and injection into the natural gas grid
  - ▶ Annual supply of 17.4 GWh of renewable energy
- ▶ CO<sub>2</sub> liquefaction and dry ice production
- ▶ Supporting the defossilisation of CO<sub>2</sub>-intensive industries
- ▶ Optimisation of organic fertilisers
- ▶ Sustainability certification





## Future Idea: Pyrolysis

## Conversion of packaging waste into valuable products through plastic pyrolysis

## Pyrolysis of industrial sewage sludge

## Pyrolysis of municipal sewage sludge

## Hydrothermal carbonization (HTC) of digestate concentrate for Microparticle elimination

Potential of CO<sub>2</sub>-emission reduction >3000to/a

